COMPARITIVE STATEMENT

Name of Work : Project: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no 6 and Surrounding areas in Byatarayanapura Division. (Package-01)

CONTRACTOR NAME :- Sri A G Narayanswamy & Co
Job Number :- 006-23-000001
WORK ORDER NO:-BBMP/EE/BTP/WO/80/2022-23 , Dated : 22/12/2022

Sl. No.		Description of work	Unit	As per Tender			Total Executed Qty	Qty up to 100%			Qty B/N 100%- 125%			Qty above 125%			Total Excess Amount	Total Savings Amount	REMARKS
				Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount			
1		3	4	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
1	1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such similar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)	Cum	1819.26	321.40	584710.16	3207.92	1819.26	321.40	584710.16	454.82	321.40	146177.54	933.85	321.39	300131.05	446308.59		
2	2	Removing and Resetting of Footpath Slab and pointing in C.M (1:3) (Approved Rate)	Sqm	1920.79	225.80	433713.82	2838.18	1920.79	225.80	433713.82	480.20	225.80	108428.45	437.19	225.86	98743.67	207172.12		
3	3	Providing B S slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete. as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges)	Sqm	1358.86	804.40	1093067.91	1369.73	1358.86	804.40	1093067.91	10.87	804.40	8742.90				8742.90		
4	4	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes, machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)	Cum	93.56	6080.20	568887.58	137.93	93.56	6080.20	568887.58	23.39	6080.20	142221.89	20.97	6081.07	127531.80	269753.69		
5	5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2)	Cum	228.32	6943.90	1585438.19	264.61	228.32	6943.90	1585438.19	36.28	6943.90	251954.72				251954.72	0.00	
6	6	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 (PWD SR 2021-22 Vol -III Pg 99 item no 13.1)	MT	15.03	109229.10	1641851.00	17.20	15.03	109229.10	1641851.00	2.17	109229.10	237032.52				237032.52	0.00	
7	7	**Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick made of M25 with OPC cement @ 340kgs per Cum with 20 mm and Down size graded granite metal coarse agg @.70 mixed including providing and removing centering, shuttering, shuttering propping etc. for edges of slabs with TMT (Fe500) COM, labor, labor, all Lead and Lift, HOM, Curing, including Cost of reinf. Etc, Complete as directed by the Engineer in charge of Work (Data Rate)**	Sqm	493.92	1991.20	983493.50	589.35	493.92	1991.20	983493.50	95.43	1991.20	190020.32				190020.32	0.00	

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				Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount			
1		3	4	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
8	8	Providing and Fixing pre cast covering Slab 230mm thick made out of CC 1:1.5:3 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge	Sqm	115.20	4840.60	557637.12	264.48	115.20	4840.60	557637.12	28.80	4840.60	139409.28	120.48	4840.60	583195.49	722604.77	0.00	
9	9	Removing and refixing stone slabs of drains and pointing in CM (1:3) (PWD SR 2018-2019 P.No-27,I No-5.33)	Sqm	2849.31	107.00	304875.96	2889.02	2849.31	107.00	304875.96	39.71	107.00	4248.70				4248.70	0.00	
10	10	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth. (PWD SR 21-22 Vol I Pg no 8 Item No 1.12)	Cum	9029.56	274.80	2481276.84	9034.82	9029.56	274.80	2481276.84	5.26	274.80	1446.62				1446.62	0.00	
11	11	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406 (PWD SR 21-22 Vol III Pg no 24 Item No 4.27 (A))	Cum	7845.88	2530.70	19855568.52	8248.18	7845.88	2530.70	19855568.52	402.30	2530.70	1018095.97				1018095.97	0.00	
12	12	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 (PWD SR 21-22 Vol III Pg no 29 Item No 5.1 A (i))	Sqm	35386.52	46.50	1645473.18	35753.72	35386.52	46.50	1645473.18	367.20	46.50	17074.74				17074.74	0.00	
13	13	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom.(V-III, P.No-29,I No-5.3(i) of PWD SR 2021-22).	Sqm	40586.42	12.70	515406.95	29727.68	29727.68	12.70	377511.78							0.00	137895.17	
14	14	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, ransporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (PWD SR 21-22 Vol III Pg no 33 Item No 5.12 (C))	Cum	1769.33	10453.70	18496036.17	1213.11	1213.11	10453.70	12681476.20							0.00	5814560.17	
15	15	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (PWD SR 21-22 Vol III Pg no 36 Item No 5.16]	Cum	1656.79	12189.40	20195289.68	1646.07	1646.07	12189.40	20064547.27							0.00	130742.41	
16	16	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803 (PWD SR 21-22 Vol III Pg no 57 Item No 8.15)	Sqm	1385.52	505.31	700115.73	1401.70	1385.52	505.31	700115.73	16.18	505.31	8174.89				8174.89	0.00	

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				Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount			
1		3	4	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
17	17	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 (M 5.0) Using 40 mm nominal size graded crushed coarse aggregates(Specification No. 2.1.1 PWD SR 2021-22 Vol -I P.No.50)	Cum	634.28	5260.10	3336346.76	564.52	564.52	5260.10	2969415.86							0.00	366930.90	
18	18	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete MORTH Specification No.1501 . as per the directions of the Engineer-in-charge of the work. (PWD SR 2021-22 Vol -III Pg 138 item no 20.29)	Cum	1062.30	7227.40	7677661.71	870.09	870.09	7227.40	6288520.14							0.00	1389141.56	
19	19	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)	T. KM	13886.48	101.50	1409413.22	15670.71	13886.48	101.50	1409437.08	1784.23	101.50	181094.10				181094.10		
		TOTAL				84066264.00				76227017.65			2454122.56			1109602.00	3563745.56	7839270.22	

Sanctioned Estimate Amount= 10000000.00
Amount Entrusted to Contractor= 84066264.00
Total Amount Actually Executed and to be Executed= 79790763.21
Excess over the Amount Entrusted to Contractor= Nil
Savings Amount over the Contract Amount= 4275524.66

Total Work Slip and EIRL Amount= 3563745.56

Percentage of Work Slip & EIRL Amount over Entrusted Amount = $\frac{3563746}{84066264}$ x100= 4.24%

ASSISTANT ENGINEER
Ward 05

ASSISTANT ENGINEER
Ward 05

ASSISTANT EXECUTIVE ENGINEER
Byatarayanapura Sub Division

EXECUTIVE ENGINEER
Byatarayanpura Division

SHRAMA Consulting Engineers Pvt. Ltd. Bangalore

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